PATENT COOPERATION TREATY

RECORDS DEPT.

SEEN BY:

AGENT:

Asw.

From the INTERNATIONAL SEARC	BARKER BRETTELL
To:	BRUNEN BRETTELL

BARKER BRETELL 138 Hagley Road Edgbaston Birmingham B16 9PW UNITED KINGDOM

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2 6 MAY 2005

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

	(PCT Rule 44.1)
Applicant's or agent's file reference	Date of mailing (day/month/year) 27/05/2005
ASW1526	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/GB2004/001731	International filing date (day/month/year) 23/04/2004
Applicant CRX LIMITED	

_		
1.	X	he applicant is hereby notified that the international search report and the written opinion of the International Searching authority have been established and are transmitted herewith.
		iling of amendments and statement under Article 19: he applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO 34 chamin dea Catambania.
		1211 Geneva 20, Switzerland, Fascifile No.: (41-22) 740.14.35 or more detailed instructions, see the notes on the accompanying sheet.
2.		ne applicant is hereby notified that no international search report will be established and that the declaration under ticle 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted because
3.		regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
		the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4.	Remi	
	Shorti Intern	after the expiration of 18 months from the priority date, the international application will be published by the onal Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international

International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2

Authorized officer

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Christine Voigt

NOTES TO FORM PCT/ISA/220 (continued)

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The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent		FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International applica	tion No.	International filing date (day/month/y	
PCT/GB2004/0	01731	23/04/2004	25/04/2003
Applicant			23/04/2003
CRX LIMITED			
This International S according to Article	Search Report has be 18. A copy is being t	en prepared by this International Searchi ransmitted to the International Bureau.	ing Authority and is transmitted to the applicant
This International S	earch Report consist	s of a total of sheets	
X It is	also accompanied b	y a copy of each prior art document cited	d in this report.
1. Basis of the re	port		
language in	to the language, the which it was filed, ur	international search was carried out on less otherwise indicated under this item.	the basis of the international application in the
	The international this Authority (Ru	search was carried out on the basis of a	a translation of the international application furnished to
b. Witt		, , , , , , , , , , , , , , , , , , ,	closed in the international application, see Box No. I.
		nd unsearchable (See Box II).	
3. Unit	y of invention is lac	king (see Box III).	
4. With regard to the	ne title,		
	*	bmitted by the applicant.	
		hed by this Authority to read as follows:	
. With regard to the	abstract,		
X the te	xt is approved as sub	mitted by the applicant.	
the te may,	xt has been establish within one month fron	ed, according to Rule 38.2(b), by this Au n the date of mailing of this international	thority as it appears in Box No. IV. The applicant search report, submit comments to this Authority.
	drawings,		
With regard to the			1
	ne drawings to be pu	blished with the abstract is Figure No.	
	ne drawings to be pu as suggested by the	blished with the abstract is Figure No e applicant.	<u> </u>
	as suggested by the	e applicant.	
	as suggested by the as selected by this	blished with the abstract is Figure No e applicant. Authority, because the applicant failed to Authority, because this figure better chan	suggest a figure.

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/001731

A. CLASSIFICATION OF SUBJECT MATTER 107 H01J35/04 H01J H01J35/08 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01J Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category ° Relevant to claim No. Υ PATENT ABSTRACTS OF JAPAN 1-11 vol. 2000, no. 23, 10 February 2001 (2001-02-10) & JP 2001 176408 A (NEW JAPAN RADIO CO LTD), 29 June 2001 (2001-06-29) abstract; figures 2-4 Υ EP 0 432 568 A (GENERAL ELECTRIC COMPANY) 1 - 1119 June 1991 (1991-06-19) page 3, column 3, line 22 - line 37 Y PATENT ABSTRACTS OF JAPAN 5 vol. 016, no. 294 (E-1225). 29 June 1992 (1992-06-29) & JP 04 079128 A (NEC CORP), 12 March 1992 (1992-03-12) abstract; figure 1 -/--X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international invention "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 18 May 2005 27/05/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Krauss, J

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2004/001731

cite	atent document d in search report		Publication date		Patent family member(s)	Publication date
JP	2001176408	A	29-06-2001	NONE		
EP	0432568	Α	19-06-1991	EP JP	0432568 A2 4144045 A	19-06-1991 18-05-1992
JP	04079128	Α	12-03-1992	NONE		
US	4887604	Α	19-12-1989	NONE		
US	3239706	Α	08-03-1966	NONE		
EP	0584871	A	02-03-1994	DE DE EP JP	4228559 A1 59304524 D1 0584871 A1 6162972 A	03-03-1994 02-01-1997 02-03-1994 10-06-1994
SU	1022236	A1	07-06-1983	NONE		
EP	0924742	A	23-06-1999	US DE DE EP JP	6005918 A 69814574 D1 69814574 T2 0924742 A2 11273597 A	21-12-1999 18-06-2003 18-03-2004 23-06-1999 08-10-1999

PATENT COOPERATION TREATY

1 -	ERNATIONAL SE		101111	\neg	
To) :				PCT
	see form	PCT/ISA/220		WRIT INTERNATIO	TEN OPINION OF THE NAL SEARCHING AUTHORIT
				J	PCT Rule 43 <i>bis</i> .1)
				Date of mailing	
					e form PCT/ISA/210 (second sheet)
App	olicant's or agent's file form PCT/ISA/2	e reference		FOR FURTHER	ACTION
			T	See paragraph 2 belo	w
PC	rnational application T/GB2004/00173	31	International filing date 23.04.2004		Priority date (day/month/year) 25.04.2003
Inte	rnational Patent Clas 1J35/04, H01J35	ssification (IPC) or	both national classificatio	n and IPC	
	licant X LIMITED				
1.	This opinion co	ontains indication	ons relating to the fo	llowing items:	
	☑ Box No. I	Basis of the op			
	☐ Box No. II	Priority			
	Box No. III	Non-establish	nent of opinion with rea	ard to novelty inventive	step and industrial applicability
	Box No. IV	Lack of unity of	finvention	and the tracking introduction	step and industrial applicability
	⊠ Box No. V	Reasoned state applicability; cit	ement under Rule 43 <i>bi</i> ations and explanation	s.1(a)(i) with regard to n s supporting such state	novelty, inventive step or industrial
	☐ Box No. VI	Certain docume	ents cited	•	
	Box No. VII	Certain defects	in the international app	olication	
	☑ Box No. VIII	Certain observa	ations on the internation	nal application	
2.	FURTHER ACTI				
	the applicant cho	oses an Authorit	v other than this and the	y Authority (IPEA"). Ho	sually be considered to be a wever, this does not apply where nosen IPEA has notifed the onal Searching Authority
	If this opinion is, a submit to the IPE months from the o whichever expires	date of mailing of	re, considered to be a v together, where approp f Form PCT/ISA/220 or	written opinion of the IPI priate, with amendment before the expiration of	EA, the applicant is invited to s, before the expiration of three 22 months from the priority date,
	For further option	s, see Form PC1	Γ/ISA/220.		
3.	For further details	, see notes to Fo	orm PCT/ISA/220.	March report	17 08 05 ITEM DIARIED
				Starch report	DIARIED
ame .	and mailing address	of the ISA:		Authorized Officer	
ame	<u> </u>			Authorized Officer	given a February
ame	European Pa D-80298 Mu	atent Office		Authorized Officer Krauss, J	Constitutes Filonomy E

WRITTEN OPINION OF THE IN ERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/001731

_		No. 4 December 2015
	BOX	No. I Basis of the opinion
1.	With the I	regard to the language, this opinion has been established on the basis of the international application in anguage in which it was filed, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and ssary to the claimed invention, this opinion has been established on the basis of:
	a. ty	pe of material:
		a sequence listing
		table(s) related to the sequence listing
	b. for	mat of material:
		in written format
		in computer readable form
	c. tim	e of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	C	a addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as oppropriate, were furnished.
4.	Additio	onal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/001731

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial			
	pplicability	JI 0	pinion with regard to novelty, inventive step and industrial
Tł ob	ne questions whether the claimed ovious), or to be industrially applic	inve able	ention appears to be novel, to involve an inventive step (to be non shave not been examined in respect of:
	the entire international applicat	ion,	
\boxtimes	claims Nos. 12		
be	cause:		
	the said international application does not require an international	n, o al pr	r the said claims Nos. relate to the following subject matter which eliminary examination (specify):
⊠	the description, claims or drawing unclear that no meaningful opin	ngs ion	(indicate particular elements below) or said claims Nos. 12 are so could be formed (specify):
	see separate sheet		
	the claims, or said claims Nos. a could be formed.	are :	so inadequately supported by the description that no meaningful opinion
	no international search report ha	as b	een established for the whole application or for said claims Nos.
	the written form		has not been furnished
			does not comply with the standard
	the computer readable form		has not been furnished
			does not comply with the standard
	the tables related to the nucleotic not comply with the technical rec	de a quire	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.
	See separate sheet for further de	ėtail	S

WRITTEN OPINION OF THE IN TERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/001731

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-11

No:

Inventive step (IS)

Yes: Claims

No: Claims

Claims

1-11

Industrial applicability (IA)

Yes: Claims

1-11

No: Claims

2. Citations and explanations

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the International application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claim 12 contains references to the description and the drawings. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: PATENT ABSTRACTS OF JAPAN vol. 2000, no. 23, 10 February 2001 (2001-02-10) & JP 2001 176408 A (NEW JAPAN RADIO CO LTD), 29 June 2001
- D2: EP-A-0 432 568 (GENERAL ELECTRIC COMPANY) 19 June 1991
- D3: PATENT ABSTRACTS OF JAPAN vol. 016, no. 294 (E-1225), 29 June 1992 (1992-06-29) & JP 04 079128 A (NEC CORP), 12 March 1992
- D4: US-A-4 887 604 (SHEFER ET AL) 19 December 1989

An English computer translation of D1 can be obtained from the Internet homepage of the Japanese Patent Office (hyperlink "Patent & Utility Model Gazette DB" under option "Patent & Utility Model" on http://www.ipdl.ncipi.go.jp/homepg_e.ipdl).

- V.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of **claim 1 does not involve an inventive step** in the sense of Article 33(3) PCT.
- V.2 The document **D1** is regarded as being the **closest prior art** to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document):
- V.3 An X-ray tube (abstract, figures 2, 4) comprising, a cathode arranged to provide a source of electrons (4 in figure 2),

an anode (2 in figure 2)

held at a positive potential with respect to the cathode (Va)

and arranged to accelerate electrons from the cathode such that they will impact on the anode thereby to produce X-rays (implicitly, "X" in figure 2),

wherein the anode is a thin film anode (abstract)

and a retardation electrode (3 in figure 2)

held at a negative potential with respect to the anode (figure 2; D1, paragraphs [0018], [0020], V_a =100kV; V_c =10kV)

thereby to produce an electric field between the anode and the retardation electrode which slows down electrons which have passed through the anode thereby reducing the amount of heat they can generate in the tube (D1, figure 2, abstract; implicitly from the voltages),

wherein the retardation electrode is located on the opposite side of the anode to the cathode (figure 2).

- V.4 The subject-matter of present claim 1 therefore differs from this known X-ray tube in that the x-ray tube of present claim 1 is a transmission target tube whereas D1 discloses a normal mode x-ray tube (figure 2).
- V.5 To achieve the same advantages as described in D1, namely the improved energy efficiency (D1, abstract) and thus reduced heat generation, in the whole technical area of x-ray tubes, it is obvious to a person skilled in the art to transfer the teaching of D1 to also to also in other types of y-ray tubes like the well-known transmission target tubes (cf. e.g. in D2).
 - To use X-ray radiation that is transmitted through the thin film anode disclosed in D1 he would without the exercise of inventive skill adapt the collector 3 of D1 accordingly to be transparent to the desired x-ray energies (e.g. by using a design similar to that of an x-ray transparent window as disclosed in D2, column 2, II. 29-31 which is already used to collect electrons, D2, column 3, II. 34-37), leading him to subject matter that falls under claim 1.
- V.8 Dependent claims 2-11 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, see documents D1/D2 and the corresponding passages

cited in the search report, in particular:

claim 2:

positive potential of retardation electrode with respect to cathode: D1, figure 2

claim 3:

retardation electrode made of electrically conducting material: D1, implicitly

claim 4:

retardation electrode part of electrical circuit, collected electrons conducted away: D1, figure 2

claim 5:

resistor: connecting collector electrodes to the corresponding terminals via resistors is a well known method for adapting the collector voltage, cf. e.g. D3, figure 1 and abstract

claims 6, 7, 10:

retardation electrode between housing and anode or part of the housing, retardation electrode between anode and window: the particular shape and position of the retardation electrode is a mere design feature and will be readily chosen by a skilled person when adapting the x-ray tube e.g. to a desired photon energy range.

claims 8, 9:

target supported by backing layer of lower atomic number, thickness of 5 microns or less: D1, figure 3, paragraph [0018]

claim 11:

filter: the use of filters and in particular line filters is well known in the art, cf. e.g. D4, figures 4 and 5; column 5, I. 60 - column 6, I. 2

Re Item VII

∫ WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

- VII.1 Independent claim 1 is not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art being placed in the preamble (Rule 6.3(b)(I) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
- VII.2 The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

Re Item VIII

The embodiments 2-4 of the invention (p. 6, l. 11 - p. 7, l. 25; figures 2-4) do not fall within the scope of the claims: The claims define a **transmission target x-ray tube**. However, embodiments 2-4 refer **non-transmission (i.e. reflection) target x-ray tubes** and it is stated on p. 1, l. 26 that "the present invention provides an x-ray tube" in general.

This inconsistency between the claims and the description leads to doubt concerning the matter for which protection is sought, thereby rendering the claims unclear, Article 6 PCT (cf. Guidelines 5.29).

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/001731

C: Jory °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Jory	Onation of document, minimodulon, where appropriate, or the relevant passages	
Y	US 4 887 604 A (SHEFER ET AL) 19 December 1989 (1989-12-19) column 7, line 3 - line 23; figures 4,5	11
A	US 3 239 706 A (FARRELL SHERMAN R ET AL) 8 March 1966 (1966-03-08) column 1 - column 3; figure 1	1-11
A	EP 0 584 871 A (TAN, DAGANG, DR) 2 March 1994 (1994-03-02) page 4, line 18 - line 41; figure 2 page 2, line 1 - line 12	
Α	SU 1 022 236 A1 (INST SILNOTOCHNOJ ELEKTRONIKI SO AN SSSR) 7 June 1983 (1983-06-07) figures 1,2	
A	EP 0 924 742 A (PICKER INTERNATIONAL, INC; MARCONI MEDICAL SYSTEMS, INC) 23 June 1999 (1999-06-23) column 4, line 25 - line 33 column 6, paragraph 0020; figure 2	
	•	

3